



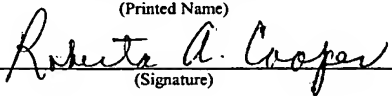
10-04-04

JFW

Atty. Dkt. No. 054821-0875

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Gerolf Richter  
Title: METHOD FOR  
DETERMINATION OF THE  
CHARGE DRAWN BY AN  
ENERGY STORAGE BATTERY  
Appl. No.: 10/706,541  
Filing Date: 11/12/2003  
Examiner: To be determined  
Art Unit: 2838

<b>CERTIFICATE OF EXPRESS MAILING</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EV 505795187 US	10/01/04
(Express Mail Label Number)	(Date of Deposit)
Roberta A. Cooper	
(Printed Name)	
	
(Signature)	

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to OG Notice dated August 5, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

### **TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

### **RELEVANCE OF EACH DOCUMENT**

The relevance of the foreign-language documents is described in the English-language abstracts for the documents provided herewith except for DE 69900638, DE 69423918, DE 69131276 and DE 68924169. An English translation of the foreign-language documents is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

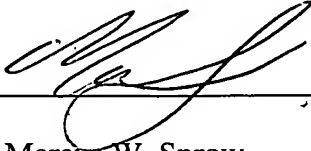
Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or

even entirely missing, the Commissioner is authorized to charge the unpaid amount to  
Deposit Account No. 06-1447.

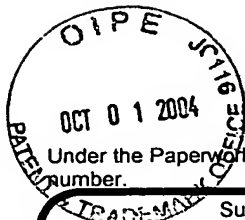
Respectfully submitted,

Date 10/1/2004

By 

FOLEY & LARDNER LLP  
Customer Number: 26371  
Telephone: (414) 297-5564  
Facsimile: (414) 297-4900

Marcus W. Sprow  
Attorney for Applicant  
Registration No. 48,580



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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: October 1, 2004

(use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

Application Number	10/706,541
Filing Date	11/12/2003
First Named Inventor	Gerolf Richter
Group Art Unit	2838
Examiner Name	To be determined
Attorney Docket Number	054821-0875

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	2004/0021468	A1	Dougherty et al.	02-05-2004	
	A2	2003/0236656	A1	Dougherty	12-25-2003	
	A3	6,653,818	B2	Laig-Horstebroek et al.	11-25-2003	
	A4	6,608,482	B2	Sakai et al.	08-19-2003	
	A5	2003/0142228	A1	Flach et al.	07-31-2003	
	A6	6,600,293	B2	Kikuchi	07-29-2003	
	A7	6,600,237	B1	Meissner	07-29-2003	
	A8	2003/0082440	A1	Mrotek et al.	05-01-2003	
	A9	6,556,019	B2	Bertness	04-29-2003	
	A10	6,534,992	B2	Meissner et al.	03-18-2003	
	A11	2003/0047366	A1	Andrew et al.	03-13-2003	
	A12	6,522,148	B2	Ochiai, et al.	02-18-2003	
	A13	6,515,456	B1	Mixon	02-04-2003	
	A14	6,515,452	B2	Choo	02-04-2003	
	A15	6,507,194	B2	Suzuki	01-14-2003	
	A16	6,495,990	B2	Champlin	12-17-2002	
	A17	6,472,875	B1	Meyer	10-29-2002	
	A18	6,452,361	B2	Dougherty et al.	09-17-2002	
	A19	6,445,158	B1	Bertness et al.	09-03-2002	
	A20	6,441,585	B1	Bertness	08-27-2002	
	A21	6,424,157	B1	Gollomp et al.	07-23-2002	
	A22	6,417,668	B1	Howard et al.	07-09-2002	
	A23	6,392,415	B2	Laig-Horstebroek et al.	05-21-2002	
	A24	6,392,414	B2	Bertness	05-21-2002	
	A25	6,392,389	B1	Kohler	05-21-2002	
	A26	6,388,450	B2	Richter et al.	05-14-2002	
	A27	6,388,421	B2	Abe	05-14-2002	
	A28	6,369,578	B1	Crouch, Jr. et al.	04-09-2002	
	A29	2002/0031700	A1	Wruck et al.	03-14-2002	
	A30	2002/0026252	A1	Wruck et al.	02-28-2002	
	A31	2002/0008495	A1	Dougherty et al.	01-24-2002	
	A32	6,331,762	B1	Bertness	12-18-2001	
	A33	6,304,059	B1	Chalasani et al.	10-16-2001	
	A34	6,300,763	B1	Kwok	10-08-2001	
	A35	6,296,593	B1	Gotou et al.	10-02-2001	
	A36	6,271,642	B1	Dougherty et al.	08-07-2001	
	A37	6,268,712	B1	Laig-Horstebroek et al.	07-31-2001	
	A38	6,222,341	B1	Dougherty et al.	04-24-2001	
	A39	6,160,382		Yoon et al.	12-12-2000	
	A40	6,144,185		Dougherty et al.	11-07-2000	
	A41	6,118,275		Yoon et al.	09-12-2000	
	A42	6,118,252		Richter	09-12-2000	

Examiner  
SignatureDate  
Considered

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				First Named Inventor	Gerolf Richter
				Group Art Unit	2838
				Examiner Name	To be determined
Sheet	2	of	6	Attorney Docket Number	054821-0875

U.S. PATENT DOCUMENTS					
		U.S. Patent Document			
	A43	6,091,325	Zur et al.	07-18-2000	
	A44	6,087,808	Pritchard	07-11-2000	
	A45	6,057,666	Dougherty et al.	05-02-2000	
	A46	6,037,777	Champlin	05-14-2000	
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	A51	5,965,954	Johnson et al.	10-12-1999	
	A52	5,936,383	Ng et al.	08-10-1999	
	A53	5,898,292	Takemoto et al.	04-27-1999	
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	A55	5,818,333	Yaffe et al.	10-06-1998	
	A56	5,818,116	Nakae et al.	10-06-1998	
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	A60	5,761,072	Bardsley, Jr. et al.	06-02-1998	
	A61	5,744,963	Arai et al.	04-28-1998	
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	A64	5,698,965	York	12-16-1997	
	A65	5,680,050	Kawai et al.	10-21-1997	
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	A82	5,281,919	Palanisamy	01-25-1994	
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	A85	5,204,610	Pierson et al.	04-20-1993	
	A86	5,162,164	Dougherty et al.	11-10-1992	

Examiner Signature	Date Considered	
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				First Named Inventor	Gerolf Richter
				Group Art Unit	2838
				Examiner Name	To be determined
Sheet	3	of	6	Attorney Docket Number	054821-0875

**U.S. PATENT DOCUMENTS**

		U.S. Patent Document			
	A87	5,159,272		Rao et al.	10-27-1992
	A88	5,130,699		Reher et al.	07-14-1992
	A89	5,079,716		Lenhardt et al.	01-07-1992
	A90	5,055,656		Farah et al.	10-08-1991
	A91	5,032,825		Kuznicki	07-16-1991
	A92	5,002,840		Klebenow et al.	03-26-1991
	A93	4,952,861		Horn	08-28-1990
	A94	4,943,777		Nakamura et al.	07-24-1990
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	A97	4,876,513		Brilmyer et al.	10-24-1989
	A98	4,816,736		Dougherty et al.	03-28-1989
	A99	4,719,427		Morishita et al.	01-12-1988
	A100	4,665,370		Holland	05-12-1987
	A101	4,659,977		Kissel et al.	04-21-1987
	A102	4,642,600		Gummelt et al.	02-10-1987
	A103	4,595,880		Patil	06-17-1986
	A104	4,322,685		Frailing et al.	03-30-1982
	A105	4,207,611		Gordon	06-10-1980
	A106	4,193,025		Frailing et al.	03-11-1980
	A107	4,153,867		Jungfer, deceased et al.	05-08-1979
	A108	3,906,329		Bader	09-16-1975

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A109	WO	03/001224	A1	Johnson Controls Technology	01-03-2003		
	A110	DE	699 00 638	T2	Alvarez	08-22-2002		
	A111	DE	100 21 161	A1	Kaiser	10-31-2001		
	A112	DE	93 21 638	U1	Champlin	08-30-2001		
	A113	EP	1 120 641	A2	Illinois Tool Works, Inc.	08-01-2001		
	A114	EP	1 116 958	A2	VB Autobatterie GmbH	07-18-2001		
	A115	DE	199 52 693	A1	Akkumulatorenfabrik Moll GmbH & Co.	05-23-2001		
	A116	DE	199 60 761	C1	Schöner et al.	05-23-2001		
	A117	WO	01 15023		Motorola, Inc.	03-01-2001		
	A118	DE	694 23 918	T2	Shelton et al.	08-03-2000		
	A119	DE	198 47 648	A1	VB Autobatterie GmbH et al.	04-20-2000		
	A120	WO	00/04620		Alliedsignal, Inc.	01-27-2000		
	A121	DE	691 31 276	T2	Champlin	12-30-1999		
	A122	WO	99 66340		Korea Kumho Petrochemical Co., Ltd.	12-23-1999		

 Examiner  
Signature

 Date  
Considered

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A123	DE	197 50 309	A1	VB Autobatterie GmbH	05-20-1999		
	A124	WO	99 17128		Siemens Automotive S.A.	04-08-1999		
	A125	WO	97/15839		Globe-Union, Inc.	05-01-1997		
	A126	DE	195 43 874		Yazaki Corp.	05-30-1996		
	A127	DE	195 40 827	A1	Mercedes-Benz Aktiengesellschaft	05-23-1996		
	A128	DE	689 24 169	T2	Alliedsignal, Inc.	03-21-1996		
	A129	DE	43 39 568		Robert Bosch GmbH	05-24-1995		
	A130	DE	44 14 134	A1	Dial Engineering AG	11-10-1994		
	A131	EP	0 516 336	B1	Fang	02-12-1992		
	A132	DE	40 07 883	A1	Moto Meter AG	09-19-1991		
	A133	DE	39 01 680	A1	Doduco GmbH et al.	03-22-1990		
	A134	DE	38 08 559	A1	Hella KG Hueck & Co.	09-28-1989		
	A135	DE	37 12 629	C2	Hitachi, Ltd.	10-15-1987		
	A136	DE	33 34 128	A1	Licentia Patent-Verwaltungs-GmbH	04-04-1985		
	A137	DE	25 11 426	A1	Illinois Tool Works, Inc.	09-25-1975		
	A138	DE	2 242 510	C3	Bader	04-04-1974		
	A139	DE	22 42 410		Kimura et al.	03-22-1973		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A140	Intel '88 – Tenth International communications Energy Conference, "A look at the Impedance of a Cell – S.L. DeBardelaben, New York Telephone Company," bearing a designation "October 30-November 2, 1988." (6 sheets)	
	A141	Battery Alert, Ltd., "The Easy-to-Install Battery Deterioration Warning Device", 12 Volt Model (BA101) Advertisement (2 sheets)	
	A142	Journal of Applied Electrochemistry, Volume 10 Number 1, January 1980 – The Impedance of Electrical Storage Cells – N.A. Hampson, s.A.G.R. Karunathilaka, Department of Chemistry, R. Leek, Department of Electronic and Electrical Engineering, University of Technology, Loughborough, Liecestershire, UK (11 sheets).	
	A143	Battery Evaluation Reports, s.e. Ross Laboratories, Inc., April 1999 (1 page)	
	A144	HSR-003 Application Notes, Hermetic Switch, Inc., Highway 92, Post Office Box 2220, Chickasha, OK 73023, <a href="http://www.hermeticswitch.com/RS_frm.htm">http://www.hermeticswitch.com/RS_frm.htm</a> , available at least by 01/07/03 (1 page)	

Examiner Signature		Date Considered	
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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A145	How It Works: Reed Switch Motor, <a href="http://members.tripod.com/simplemotor/rsmotor.htm">http://members.tripod.com/simplemotor/rsmotor.htm</a> , available at least by 01/06/03, 4 pages.	
	A146	Reed Relay Technical & Applications Information, COTO Technology, 55 Dupont Drive, Providence, RI, pgs. <a href="http://www.cotorelay.com/ReedTech.pdf">http://www.cotorelay.com/ReedTech.pdf</a> , available at least by 01/06/03, 37-43.	
	A147	Willibert Schleuter, <u>Das elektrische Ersatzschaltbild des Bleiakкумуляtors unter Berücksichtigung erzwungener Elektrolytströmung</u> , etz Archiv, Vol.4 (1982), Issue 7, pages 213 -218	
	A148	Lürkens et al., <u>Ladezustandsschätzung von Bleibatterien mit Hilfe des Kalman-Filters</u> , etz Archiv, Vol. 8 (1986), Issue 7, pages 231 -236	
	A149	BROOKE, L., "Resin Keeps Batteries Cool", A1 Inside Magazine, November, 1998, pg. 55	
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	A153	ROBBINS, TIM & HAWKINS, JOHN, "Battery Model For Over-Current Protection Simulation of DC Distribution Systems," Telecommunications Energy Conference, 1994, Intelec '94, 16 <sup>th</sup> International Vancouver, BC, Canada October 30-November 3, 1994, New York, NY, IEEE, pages 307-314 XP001036407 ISBN: 0-7803-2034-4.	
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	A155	MAURACHER, P. & KARDEN, E., "Dynamic Modelling of Lead/Acid Batteries Using Impedance Spectroscopy for Parameter Identification," Journal of Power Sources, Elsevier Sequoia S.A., Lausanne, Ch., Vol. 67 (1997) No. 1-2, pages 69-84, XP004095174 ISSN: 0378-7753, pg. 70, line 11; page 82, line 5, figures 2, 3, 12.	

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		Application Number Filing Date First Named Inventor Group Art Unit Examiner Name Attorney Docket Number	10/706,541 11/12/2003 Gerolf Richter 2838 To be determined 054821-0875
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	A156	BAERT, D & VERVAET, A., "Lead-Acid Battery Model for the Derivation of Peukert's Law," Electrochimica Acta, Elsevier Science Publishers, Barking, GB, Vol. 44, No. 20, pages 3491-3504 XP004168624 ISSN: 0013-4686.	
	A157	International Search Report for PCT/US02/19760 (international filing date 06/21/2002), date of mailing 10/10/2002.	
	A158	Conference Proceedings, Intelec '86 - International Telecommunications Energy Conference, Determining the End of Battery Life - Sheldon DeBardelaben, New York Telephone Company, bearing a designation "October 19-22, 1986." (6 sheets)	
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	A160	Forecast Review, The Battery Man, November, 1996 Page. 21	
	A161	OnGuard™ XT Battery State-of-Health Monitor, 2003 Midtronics, Inc. P/N 156-983A (2 sheets)	

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